



D.T.S. Code

V2/(RJ1/2 QUT/PUT

(PLUG/IN/QUTPUT) 03.LA/077

(M12 3CH OUTPUT)

User's Manual Rel 2.0 GB

ひ.T.S. Illuminazione srl - ITALY http://www.dts-lighting.it



The Lighting Company

Made in Italy

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DESCRIPTION

Overview

Z30 is a power supply / DMX LED controllers designed to control the following D.T.S. LED products:

FOCUS LED projectors, MR16 LED lamps, DIVE 3 FULL COLOUR, DIVE 9 RGB, DIVE 6 FULL COLOUR (2 Output needed), DIVE 18 RGB (2 Output needed)

System

Z30 is fitted with 10 outputs of 3 channels each; max power of each output is 18W, max power of each channel is 6W. (6W RED, 6W GREEN, 6W BLUE)

Each output can supply and control an independent set-up of D.T.S. LED products at the same time, like one of the following:

- * max 3 x MR16 RGB LED lamps
- * max 1 x MR16 Full Color LED lamps
- * max 3 x FOCUS RGB LED projectors
- * max 1 x FOCUS Full Color LED projectors
- * max 1 x DIVE 3 FULL COLOUR
- * max 1 x DIVE 9 RGB

DIVE 6 FULL COLOUR and DIVE 18 RGB need 2 x LEDs output to be properly driven.

Interface

Z30 is fitted with a LED interface that lets you enter all functions of the internal menu.

DMX

Z30 LED CONTROLLER can be used in 3 DMX mode: 30 ch, 9 ch mode or CUSTOM channels mode.

Operating system update

Z30 internal operating system can be updated via computer, through the dedicated D.T.S. RED BOX interface

Control

Z30 can be controlled by any DMX console.

Construction

Z30 is housed in a sturdy metal case, that offers high resistance to knocks and mechanical stress. Z30 is rack mountable.

The protection rating against external agents is Ip20.

Connections

DMX IN / OUT 2 XLR 5-pole by Neutrik and 2 XLR 3-pole by Neutrik.

LEDs connector output:

Three models available; RJ12 female connector (03.LA.072.V2) / 6 poles plug-in screw connector (03.LA.077.V2) / M12 3CH CONNECTOR (03.LA.073.V2) .

(The Maximum distance between the Z30 and the last LED unit in the line should not exceed 100 meters).

MAIN ELECTRICAL CHARACTERISTICS

Input Voltage Range

Vin 90 - 260 Vac

Frequency

50 - 60 HZ

Power Consumption Range

20 - 200 W

Power Factor (Pf)

0.95 electronic PFC controller

Efficiency

90% typical

Output

Power Output Range: 10 outputs of 3 channels each Max power of each output is 18W (6W per channel)

Max power of each channel is 6W (6W Red, 6W Green, 6W Blue)

Output Current: 350 mA @ 100% per channel (0 - 4,5W per channel) 420-500 mA @ 100% per channel in BOOST Mode (0 - 6W per channel)

Output Voltage: Vout 12V

Max Load per output: 3 x MR16 RGB LED lamps, 1 x MR16 Full Color LED lamps,

3 x FOCUS RGB LED projectors, 1 x FOCUS Full Color LED projectors, 1 x DIVE 3 FULL COLOUR

1 x DIVE 9 RGB.

DIVE 6 FULL COLOUR and DIVE 18 RGB need 2 x LEDs output to be properly driven.

Min Load (output) per group: 1 x MR16 RGB LED lamp

Control Input

Control Signal: DMX 512

Dimming System: Constant Current PWM

Address Range: DMX 512 channels addressable by display

IMPORTANT SAFETY INFORMATION

Fire prevention:

Never locate the fixture on any flammable surface.

Minimum distance from flammable materials: 10 cm

Replace any blown or damaged fuses only with those of identical value

Prevention from electric shock:

High voltage is present inside the unit.

Unplug the unit prior to performing any operation which involves touching the inside of the unit.

This equipment must be grounded, do not connect to non-grounded supplies.

The use of a thermal magnetic circuit breaker is recommended for each Z30.

Use only AC supplies 90-260V, 50-60Hz

The unit should never be located in position exposed to rain or in areas of extreme humidity.

A good air ventilation is essential for proper equipment work.

Safety:

The external surface of the unit may exeed 50°C; never handle the unit until at least 5 minutes have elapsed since the unit was turned off.

Never install the unit in an enclosed area lacking sufficient air flow.

The ambient temperature should not exeed 40°C and should not be lower than -10°C

UNIT DIMENSION

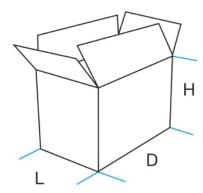
Unit Dimensions (LxDxH) 480 x 385 x 88 mm

Weight 7,5 Kg



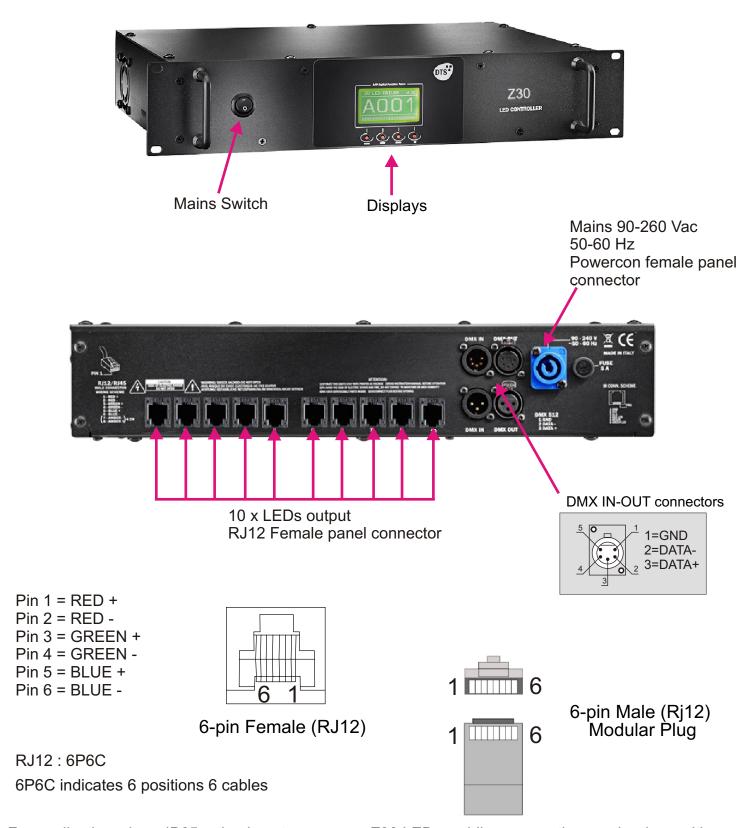
Packing Dimensions (LxDxH) 490 x 390 x 90 mm

Weight 8,5 Kg



INPUT/OUTPUT CONNECTIONS

03.LA.072.V2 (RJ12 OUTPUT)



For application where IP65 rating is not necessary, Z30 LEDs cabling connection can be done with a standard UTP TIA/EIA 568-B2 category 5E cable.

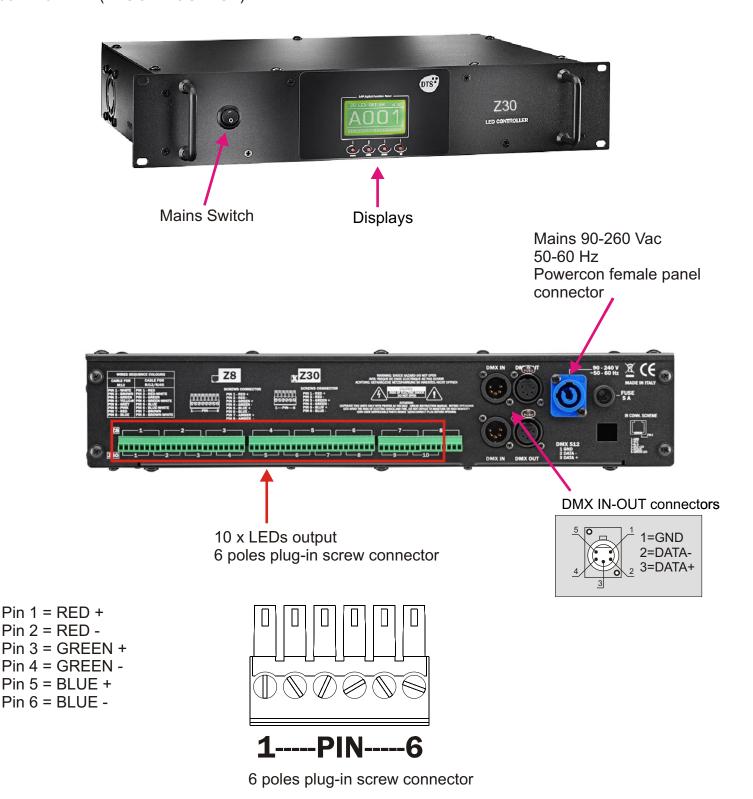
The maximum distance between power supply and the last unit on the line should not exceed 100 meters.

For IP65 rating application, D.T.S. reccomed the use of a IP65/68 cable as the 4X2XAWG24 multipolar black outdoor cable (D.T.S. Code: 0509C062).

The maximum distance between power supply and the last unit on the line should not exceed 100 meters.

INPUT/OUTPUT CONNECTIONS

03.LA.077.V2 (PLUG-IN OUTPUT)



For application where IP65 rating is not necessary, Z30 LEDs cabling connection can be done with a standard UTP TIA/EIA 568-B2 category 5E cable.

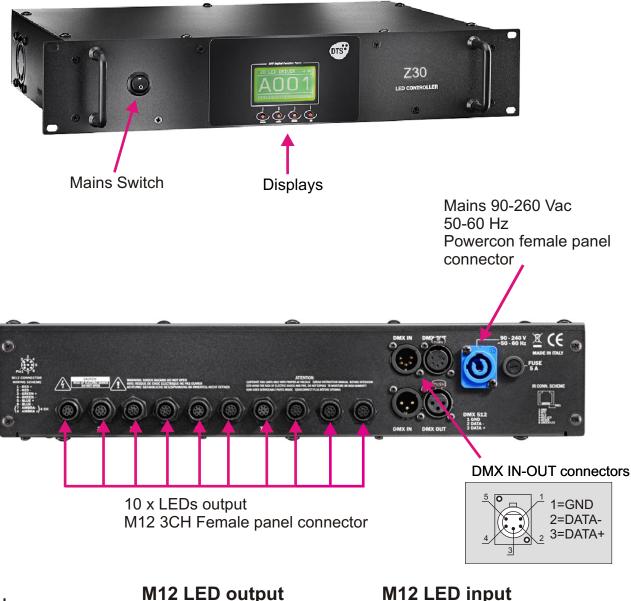
The maximum distance between power supply and the last unit on the line should not exceed 100 meters.

For IP65 rating application, D.T.S. reccomed the use of a IP65/68 cable as the 4X2XAWG24 multipolar black outdoor cable (D.T.S. Code: 0509C062).

The maximum distance between power supply and the last unit on the line should not exceed 100 meters.

INPUT/OUTPUT CONNECTIONS

03.LA.073.V2 (M12 3CH OUTPUT)



Pin 1 = RED +

Pin 2 = RED -

Pin 3 = GREEN +

Pin 4 = GREEN -

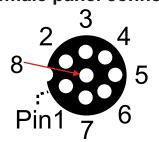
Pin 5 = BLUE +

Pin 6 = BLUE -

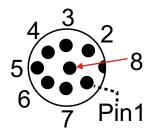
Pin 7 = NOT CONNECTED

Pin 8 = NOT CONNECTED

M12 LED output Female panel connector



M12 LED input
Male cable connector



For application where IP65 rating is not necessary, Z30 LEDs cabling connection can be done with a standard UTP TIA/EIA 568-B2 category 5E cable.

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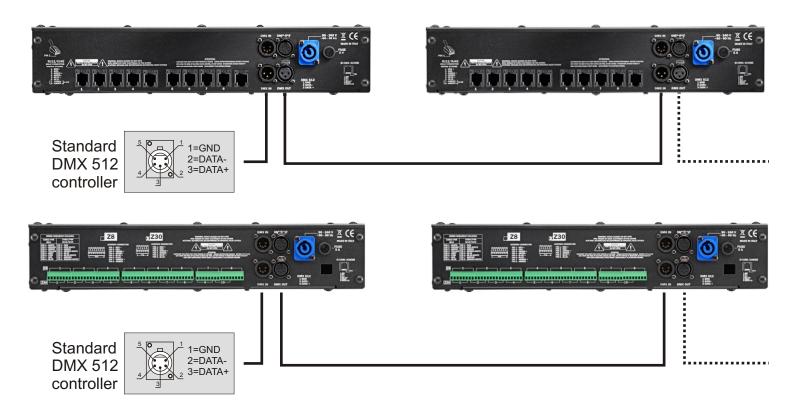
The maximum distance between power supply and the last unit on the line should not exceed 100 meters.

DMX SIGNAL CONNECTION:

The unit operates using a digital DMX 512 signal. Connection between the controller and the unit or between units must be carried out using a two pair screened \emptyset 0.5 mm cable and a CANNON XLR 3/5 pins connector.

Ensure that the conductors do not touch each other. Do not connect the cable ground to the XLR chassis. The plug housing must be isolated. Connect the mixer signal to the DMX IN of the Z30 plug and connect it to the next unit by connecting the DMX OUT plug on the first Z30 to the DMX IN plug of the second one.

This way, all the projectors are cascade connected.



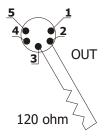
P.S:

If the display showing the DMX address flashes, then one of the following errors has occurred:

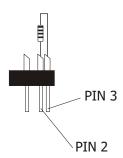
- DMX signal not present
- DMX reception problem

For Installations where long distance DMX cable connections are needed, we suggest to use a DMX terminator.

The DMX terminator is a male XLR 3-5 pins connector with a 120 ohm resistor Between pin 2 and 3. The DMX terminator must be plugged into the last unit (DMX out panel connector) of the DMX line.



PLACE A 120 OHM RESISTOR BETWEEN PIN 2 AND 3 OF A MALE XRL CONNECTOR AND PLUG IT INTO THE DMX OUT PANEL CONNECTOR OF THE LAST UNIT CONNECTED TO THE DMX LINE



DMX ADDRESS

Z30 LED CONTROLLER can be used in 2 DMX mode: 30 ch or 9 ch mode or CUSTOM channels mode.

If you want to use the Z30 in 30 channels mode, select the 30 CH mode from the MODE menu and set the following addresses on the mixer:

Projector 1 A001 Projector 2 A031 Projector 3 A061 A.... projector 6 A151

If you want to use the Z30 in 9 channels mode, select the "Z1 type map" mode from the MODE menu and set the following addresses on the mixer:

Projector 1 A001

Projector 2 A010 If you want to select the next projector, just add "9"

Projector 3 A019

..... A....

projector 6 A046

Selecting the DMX address

- 1) Press the UP-DOWN key until you reach the required DMX address. The numbers on the display will start flashing (but the new DMX address hasn't yet been set).
- 2) Press ENTER to confirm your selection. The numbers on the display will stop flashing and the projector is now controlled by the new DMX address.

TIPS: if you keep pushed the UP or DOWN keys, the channels are calculated more quickly and you get a faster selection.

DISPLAY FUNCTIONS

Z30 LED CONTROLLER

03.LA.072.V2 (RJ12 OUTPUT) 03.LA.077.V2 (PLUG-IN OUTPUT) 03.LA.073.V2 (M12 3CH OUTPUT)



DISPLAY FUNCTIONS

The Z30 display panel shows all the available functions . Using these functions, it is possible to change some of the parameters and add some functions. Changing the D.T.S. setting can vary the functions of the unit so that it does not respond to the DMX 512 signal used to control it. Carefully follow the instructions below before carrying out any variations or selections.

NOTE: the symbol shows which key has to be pushed to obtain the desired function.

Z30 Software version 1.40





DEFAULT SETTING\ UPLOAD FIRMWARE\ DOWNLOAD FIRMWARE\ ABOUT

DEFAULT SETTING
To restore main settings

UPLOAD FIRMWARE
Upload the firmware by DMX
This menu allow to upgrade the unit's software by computer

DOWNLOAD FIRMWARE
This menu allow to save unit's programs into computer

ABOUT
Master pcb code, pcb revision, SW version

GLOBAL SETTING

2.GLOBAL SETTING

1.Default settings
2.Upload firmware
3.Download firmware
4.About...

DEFAULT SETTING

To restore Factory settings

UPLOAD FIRMWARE

Upload the firmware via DMX This menu allow to upgrade the unit's software by computer

DOWNLOAD FIRMWARE

This menu allow to save unit's programs into computer

ABOUT

Master pcb code, pcb revision, SW version









Flip Visual / Background colour / contrast level / Screen saver

FLIP VISUAL

Reverses display's reading depending on the mounting position (On the ground or suspended).

BACKGROUND COLOR

To select the colour of the display background

CONTRAST LEVEL Display contrast

SCREEN SAVER

This menu allow to activate the screen saver.

DISPLAY **SETTING**

FLIP VISUAL

Flip visual OFF (Default) Flip visual ON



2.DISPLAY SETTING

- 1.Flip visual
- 2.Background colour
- 3.Contrast level
- 4. Screen saver

BACKGROUND COLOR

Background NORMAL (Default) Background REVERSE



CONTRAST LEVEL

Page under construction



SCREEN SAVER

Screen saver TYPE (default disabled) Screen saver TIME (default 10 sec.)



Menu Up-Down Mode setting





DMX MODE To select DMX mode: 30 DMX ch, 9 DMX channel or Custom map control.

CUSTOM MODE SETUP DMX mode channels configuration selectable by user. This menu let you set the parameters for Shutter, Dimmer, Red, Green, Blue to the desired DMX channels. (Custom map

INFRARED MODE Infrared remote control. By activating INFRARED MODE, it will be possible to navigate trought the unit functions by using the D.T.S. infrared remote control. D.T.S. Code:0514L008 (Internal hardware interface not yet implemented)

EMERGENCY SETUP

control)

Emergency operating mode. By setting Emergency mode, it will be possible to select one of the 5 preprogrammed WHITE cues that will then ran if DMX signal is missing or not available. (Dimmer level also selectable by user) Usefull for Emergency EXIT ilumination on public areas.

MODE SETTING

3. MODE SETTING

- 1. DMX mode
- 2. Custom mode setup
- 3. InfraRed mode
- 4. Emergency setup

DMX MODE MAP

Full control map = 30 DMX ch (default) **Z1 type map** = 9 DMX ch mode **Custom map** = DMX mode channels configuration programmed by user under Custom mode setup menu



CUSTOM MODE SETUP

SET dmx order = DMX mode channels configuration selectable by user.

Block set wizard = let you select the DMX starting address on every single output block, 10 output blocks in total.

(Example: block 1 DMX 001, block 2 DMX 006, Block 3 DMX 011....)

Clear block setup = DMX starting address reset.

INFRARED MODE

Infrared disabled (default) **Infrared enabled**

NOTE:

Internal hardware interface not yet implemented External infrared remote sensor needed.

D.T.S. Code:03.LA.016

EMERGENCY SETUP

Mode selection = ON/OFF (default = OFF) Macro selection = White COLD, NATURAL, WARM, FULL, DMX.

Macro DMX Program= Save settings **Dimmer level** = 0-255 (default = 255)







Hardware test\ LED min setup\ LED max setup\ MR16 full colour\ Output filter\ output delay\ Led BOOST.

HARDWARE TEST Complete hardware test

LED MIN SETUP This menu allow to select the minimum levels for Red, Green, Blue and Amber

LED MAX SETUP This menu allow to select the maximum levels for Red, Green, Blue and Amber

MR16 FULL COLOUR Preprogrammed RGB values for MR16 full colour led lamp

OUTPUT FILTER Output filter OFF Output fileter ON (default)

OUTPUT DELAY This menu allow to select the value of the delay (in millisecons) for **RGBA** and Dimmer channels reaction to DMX or Program variation. No output delay = 25 ms delay Short output delay = 80 ms delay Long output delay = 250 ms delay

LED BOOST Led BOOST (350mA) Led BOOST Min (420 mA), Led BOOST Max (500 mA)

LED

4.LED SETUP

4.LED SETUP

6.Output delay 7.Led BOOST

1.Hardware test

2.Led MIN setup

3.Led MAX setup

4.MR16 full colour 5.Output filter

SETUP

Hardware test OFF (default) Hardware test ON

HARDWARE TEST



LED MIN SETUP

MIN | level | RED (default = 0)MIN level GREEN (default = 0) MIn level BLUE (default = 0)MIN level AMBER (default = 0)

LED MAX SETUP

B

MAX level RED (default = 255) MAX level GREEN (default = 255) MAX level BLUE (default = 255) MAX level AMBER (default = 255)

MR16 FULL COLOUR



MR16 limit OFF (Default) MR16 limit ON

OUTPUT FILTER



Output filter OFF Output filter ON (Default)

OUTPUT DELAY



No output delay Short delay (default) Long delay

LED BOOST



Led BOOST disable (350mA) Default Led BOOST MIN (420 mA) Led BOOST MAX (500 mA)





Lifetime\ voltage level \ temperature

This menu show the total UNIT LIFE TIME (reset not possible) and the RGB life TIME (reset possible)

VOLTAGE LEVEL Internal voltage measure

TEMPERATURE Internnal / External temperature measure

MEASURE

5.MEASURE

- 1.Lifetime
- 2.Voltage level
- 3.Temperature
- 4.DMX tester

LIFETIME Unit lifetime

LED Lifetime

VOLTAGE LEVEL Internal voltage measure

TEMPERATURE Internal / External temperature measure



ENTER



DMX PROTOCOL

Z30 RGB 30 CHANNELS MODE

60 CHANNELS MODE (Default)

1	RED	1	1	.6	RED	6
2	GREEN	1	1	.7	GREED	6
3	BLUE	1	1	.8	BLUE	6
4	RED	2	1	9	RED	7
5	GREEN	2	2	20	GREEN	7
6	BLUE	2	2	21	BLUE	7
7	RED	3	2	22	RED	8
8	GREED	3	2	23	GREEN	8
9	BLUE	3	2	24	BLUE	8
10	RED	4	2	25	RED	9
11	GREEN	4	2	26	GREED	9
12	BLUE	4	2	27	BLUE	9
13	RED	5	2	28	RED	10
14	GREEN	5	2	29	GREEN	10
15	BLUE	5	3	80	BLUE	10

DMX CHANNEL	,	1	Par	ameter: RED 1	1		
DMX range Value		Mid poi DMX va		Move range (degrees)	Mode	Option	Function
000-255							Proportional colour
DMX CHANNEL 2 Parameter: GREEN1							
DMX range Value		Mid poi DMX va		Move range (degrees)	Mode	Option	Function
000-255				Ì			Proportional colour

DMX CHANNEL	3	Parameter: BLUE 1
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	4	Parameter: RED	2		
DMX range Value	Mid poi DMX va		Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	5	Parameter: GRE	EN 2		
DMX range Value	Mid poi DMX va	range	Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	6	Parameter: BLUI	Ε 2		
DMX range Value	Mid poi DMX va		Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	7	Parameter: RED	3		
DMX range Value	Mid poi DMX va	range	Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	8	Parameter: GRE	EN 3		
DMX range Value	Mid poi DMX va		Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	9	Parameter: BLUI	Ε 3		
DMX range Value	Mid poi DMX va	range	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	10	Parameter: RED 4	4		
DMX range Value	Mid poi DMX va	range	Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	11	Parameter: GREF	EN 4		
DMX range Value	Mid poi DMX va	range	Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	12	Parameter: BLUE	2.4		
DMX range Value	Mid poi DMX va	range	Mode	Option	Function
000-255		, y			Proportional colour
DMX CHANNEL	13	Parameter: RED 5	5		
DMX range Value	Mid poi DMX va	range	Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	14	Parameter: GREE	EN 5		
DMX range Value	Mid poi DMX va	range	Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	15	Parameter: BLUE	2.5		
DMX range Value	Mid poi DMX va	range	Mode	Option	Function
000-255		(6)			Proportional colour

DMX CHANNEL	16	Parameter: RED	6		
DMX range Value	Mid poi DMX va		Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	17	Parameter: GREI	EN 6		
DMX range Value	Mid poi DMX va	range	Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	18	Parameter: BLUF	Ε 6		
DMX range Value	Mid poi DMX va		Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	19	Parameter: RED	7		
DMX range Value	Mid poi DMX va	range	Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	20	Parameter: GREI	EN 7		
DMX range Value	Mid poi DMX va	range	Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	21	Parameter: BLUF	E 7		
DMX range Value	Mid poi DMX va	range	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	22	Parameter: RED 8	3		
DMX range Value	Mid poi DMX va		Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	23	Parameter: GREE	EN 8		
	Mid poi DMX va	range	Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	24	Parameter: BLUE	2.8		
DMX range Value	Mid poi DMX va	range	Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	25	Parameter: RED 9)		
DMX range Value	Mid poi DMX va		Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	26	Parameter: GREE	EN 9		
	Mid poi DMX va	range	Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	27	Parameter: BLUE	. 9		
DMX range Value	Mid poi DMX va	range	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	28	Parameter: RED 10

000-255		(degrees)			Proportional colour
DMX range Value	Mid point DMX value	Move range	Mode	Option	Function

DMX CHANNEL	29	Parameter: GREEN 10
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	30	Parameter: BLUE 10
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-255					Proportional colour

DMX PROTOCOL

9 CHANNELS MODE

- 1 SHUTTER
- 2 DIMMER
- 3 RED
- 4 GREEN
- 5 BLUE
- **6** WHITE (Pre-programmed whites at different color temperatures)
- 7 CTC
- **8 COLOURS MACRO**
- 9 FUNCTIONS

DMX CHANNEL	1	Parameter: SHUTTER
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function	
0-9	5				Black-out	
10-19	14			,	Open	
20-29	24				Black-out	
30-119		Strobe at variable speed from slow to fast (3400ms-20ms)				
120-149		Pulse open at variable speed from slow to fast (43s-100ms)				
150-179		Pulse	close at vari	able speed	from slow to fast (43s-100ms)	
180-204	192		I	Random St	trobe (Master and RGB active)	
205-229	218				Random Strobe (Full)	
230-255	240				Open	

DMX CHANNEL 2 Parameter: DIMMER

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional dimmer

DMX CHANNEL	3	Parameter: RED
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional colour

DMX CHANNEL	. 4 Par	rameter: GREF	EN					
DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function			
0-255					Proportional colour			
DMX CHANNEL	. 5 Par	rameter: BLUE						
DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function			
0-255					Proportional colour			
DMX CHANNEL 6 Parameter: WHITE (Pre-programmed White at diff. color temperature)								
DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function			
0-55	23				No Function			
56-105	80			Fu	ull (Red-Green-Blue at Full)			
106-155	130				White DTS			
IF CHANNEL	9 (FUNCTIO	ONS) = CUS	том whit	E RECAL	L (Dmx range value 0 - 79)			
156-205	180				Custom White Recall			
206-255	225	White CTC (Channel 7 CTC enabled 43 color temp. Correction Macros: 2000°K-7200°K)						
			IF CHANNEL 9 (FUNCTIONS) = CUSTOM WHITE CREATE (Dmx range value 80 - 160)					
IF CHANNEL	9 (FUNCTIO	ONS) = CUS'	том whit	E CREAT	E (Dmx range value 80 - 160)			
IF CHANNEL	9 (FUNCTION 180	<u> </u>			E (Dmx range value 80 - 160) GB levels selectable by DMX)			
-	`	Cu	stom White	Create (RO	GB levels selectable by DMX)			
156-205	180 225	Cu	stom White e CTC (Cha lor temp. Co	Create (RC nnel 7 CTC orrection M	GB levels selectable by DMX) C enabled facros: 2000°K-7200°K)			
156-205 206-255	180 225	White 43 co	stom White e CTC (Cha lor temp. Co	Create (RC nnel 7 CTC orrection M	GB levels selectable by DMX) C enabled facros: 2000°K-7200°K)			
156-205 206-255 DMX CHANNEL DMX range	180 225 7 Par Mid point DMX value	White 43 co	te CTC (Cha lor temp. Co (Color temp	Create (ROnnel 7 CTO) Correction Merature cor Option	GB levels selectable by DMX) C enabled facros: 2000°K-7200°K) rection) Function			
DMX CHANNEL DMX range Value	180 225 7 Par Mid point DMX value 6 (White) =	White 43 constant and the second seco	te CTC (Cha clor temp. Co (Color temp Mode	Create (RConnel 7 CTCorrection Merature correction Option	GB levels selectable by DMX) C enabled facros: 2000°K-7200°K) rection) Function			
DMX CHANNEL DMX range Value IF CHANNEL	180 225 7 Par Mid point DMX value 6 (White) = 43 color ter	White 43 contractions are the contractions white CTC with the contraction of the contract	e CTC (Cha lor temp. Co (Color temp Mode	Create (RConnel 7 CTCorrection Merature correction Merature correc	GB levels selectable by DMX) C enabled lacros: 2000°K-7200°K) rection) Function 6 - 255) / 128 = 5500°K / 255 = 7200°K 0 - 43)			

DMX CHANNEL 8 Parameter: COLOUR MACROS

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-14					No Function
15-29					Macro 1
30-44					Macro 2
45-59					Macro 3
60-74					Macro 4
75-89					Macro 5
90-104					Macro 6
105-119					Macro 7
120-134					Macro 8
135-149					Macro 9
150-164					Macro 10
165-179					Macro 11
180-194					Macro 12
195-209					Macro 13
210-225					Macro 14
226-239					Macro 15
240-255					Macro 16

DMX CHANNEL 9 Parameter: FUNCTIONS (Recall, Create and Store the Custom white)

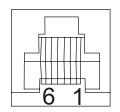
DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function			
0-79		Custom '	White Recall	(Enable C	CH 6 for Custom white Recall)			
80-160		Custom White Create (Enable CH 6 for Custom white Creation)						
161-255		Cı	Custom White Store (Store the Custom White created)					

WIRING DIAGRAMS

Z30 is available in three version with different LED output connectors: RJ12 female connectors (03.LA.072.V2), 6 poles plug-in screw connectors (03.LA.077,v2) and M12 3CH connector (03.LA.073.V2).

RJ12 Female panel connector on board :Z30 LED CONTROLLER (03.LA.072.V2)

RJ12 LED input male cable connector on board : Focus, Helios, MR16 led lamps LEDS CONNECTOR PINOUT (Rj12)

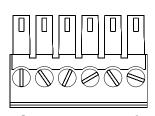


6-pin Female (RJ12)

1 2 3 4 5 6

Pin 1 = RED +
Pin 2 = RED Pin 3 = GREEN +
Pin 4 = GREEN Pin 5 = BLUE +
Pin 6 = BLUE -

6 poles plug-in screw connector on board :Z30 LED CONTROLLER (03.LA.077.V2)



1----9IN----6

LEDS
CONNECTOR PINOUT
6 poles plug-in
screw connector

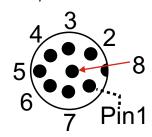
Pin 1 = RED +
Pin 2 = RED Pin 3 = GREEN +
Pin 4 = GREEN Pin 5 = BLUE +
Pin 6 = BLUE -

6 poles plug-in screw connector

M12 3CH LED output Female panel connector on board : Z30 LED CONTROLLER (03.LA.073.V2)

8 2 3 4 5 Pin1 7 6

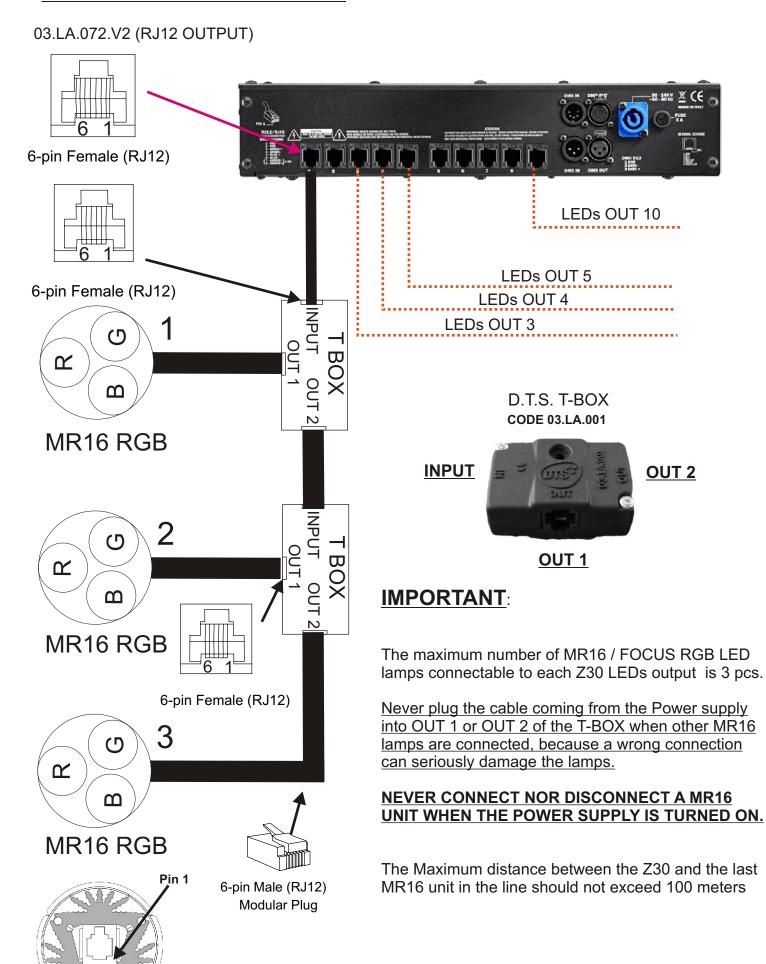
M12 3CH LED input
Male cable connector
mountable on request
on:
FOCUS RGB LED projectors
FOCUS Full Color LED projectors
DIVE 3 / 6 FULL COLOUR
DIVE 9 / 18 RGB



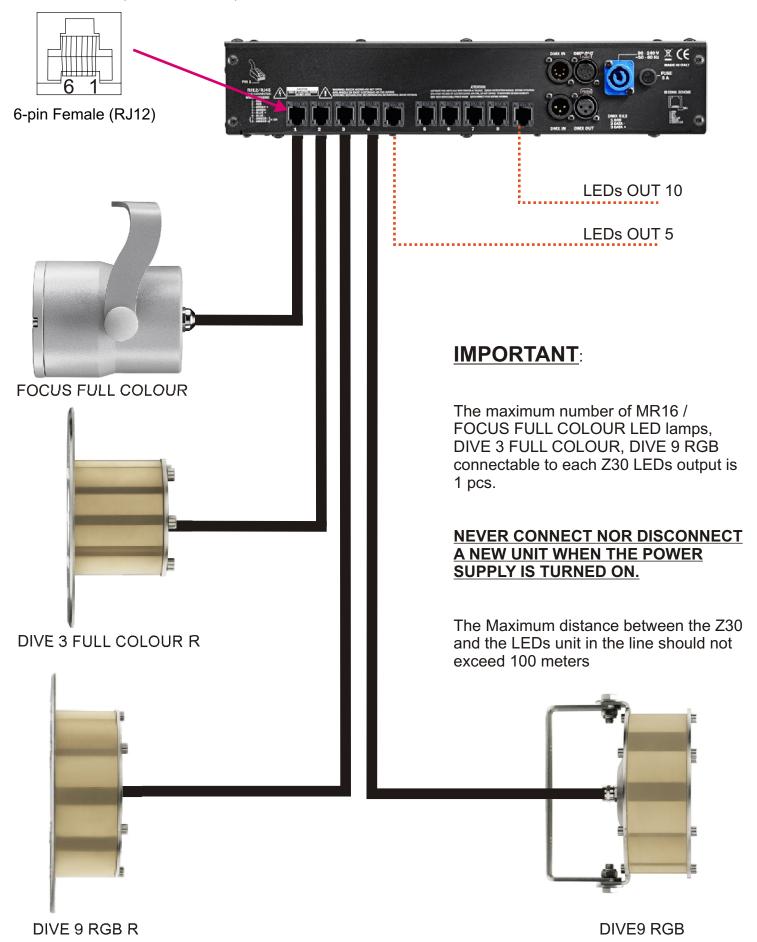
LEDS CONNECTOR PINOUT (M12 3CH)

Pin 1 = RED +
Pin 2 = RED Pin 3 = GREEN +
Pin 4 = GREEN Pin 5 = BLUE +
Pin 6 = BLUE Pin 7 = NOT CON

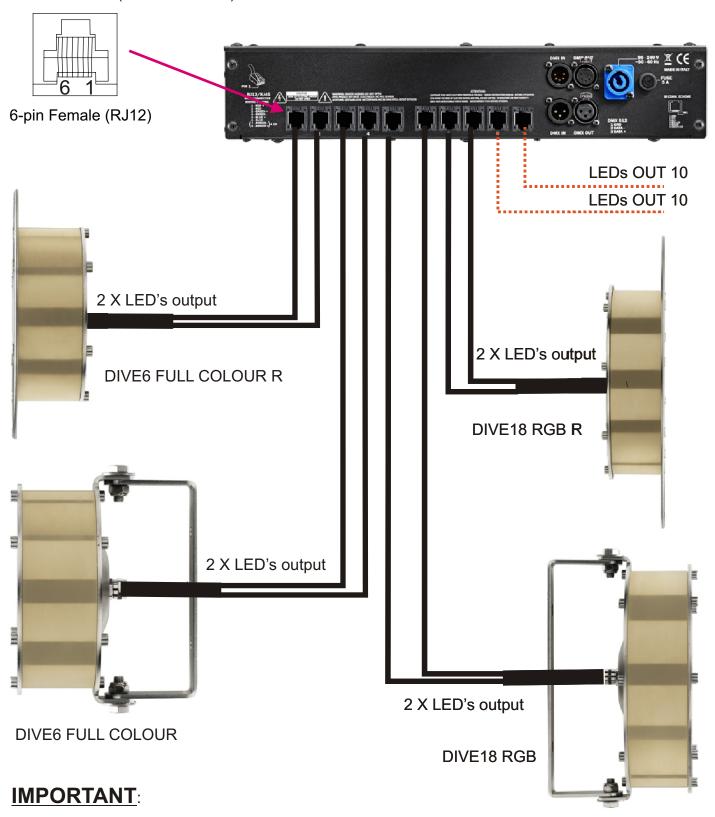
Pin 7 = NOT CONNECTED Pin 8 = NOT CONNECTED







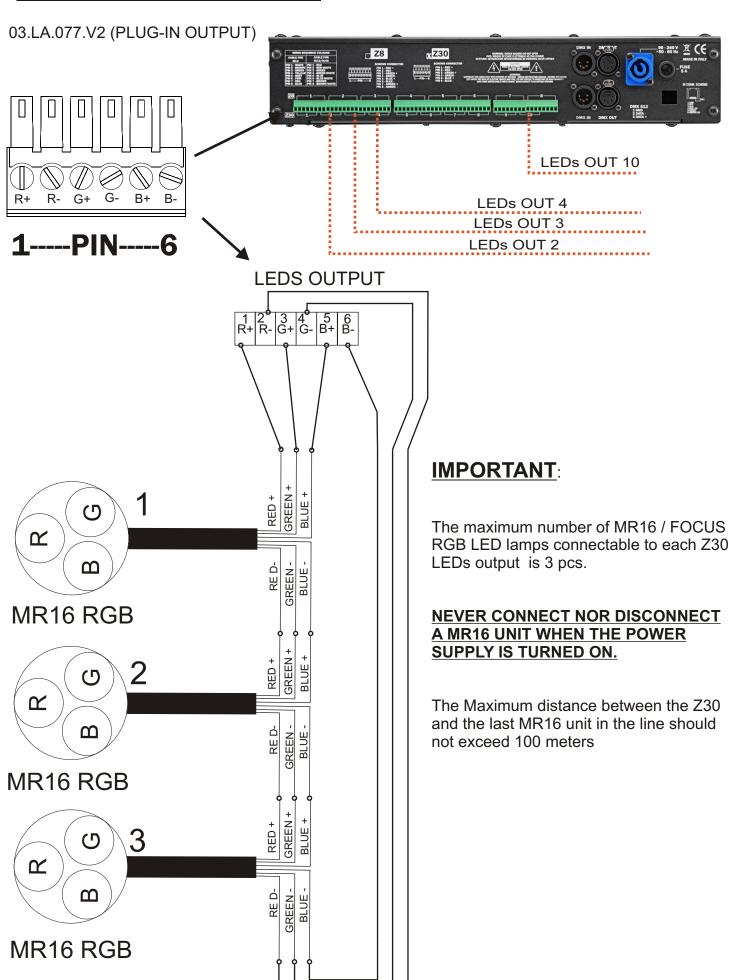
03.LA.072.V2 (RJ12 OUTPUT)

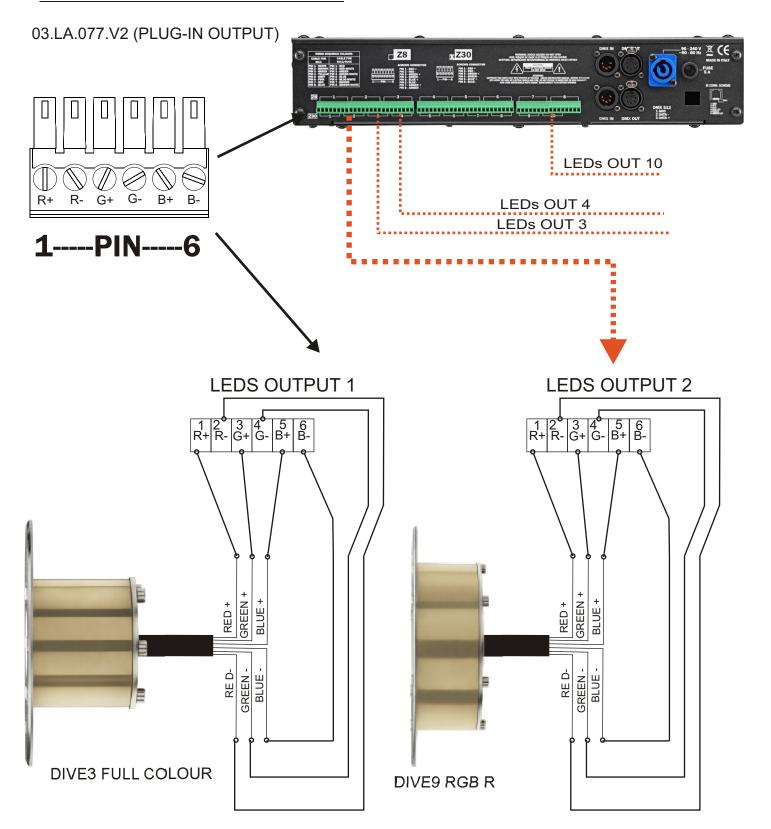


DIVE6 FULL COLOUR and DIVE18 RGB unit are provided with 2 separeted LED's input lines. DIVE6 FULL COLOUR and DIVE18 RGB unit need 2 x Z30 LED's output each.

NEVER CONNECT NOR DISCONNECT A NEW UNIT WHEN THE POWER SUPPLY IS TURNED ON.

The Maximum distance between the Z30 and the LEDs unit in the line should not exceed 100 meters



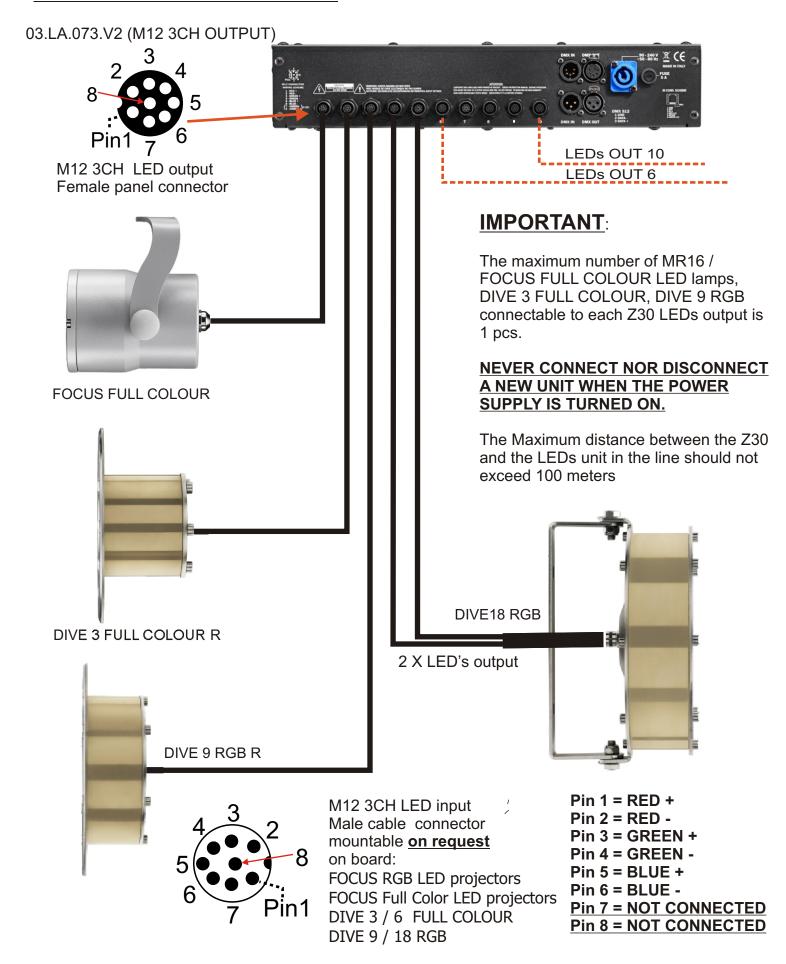


IMPORTANT:

The maximum number of MR16 / FOCUS FULL COLOUR LED lamps, DIVE 3 FULL COLOUR, DIVE 9 RGB connectable to each Z30 LEDs output is 1 pcs.

NEVER CONNECT NOR DISCONNECT A NEW UNIT WHEN THE POWER SUPPLY IS TURNED ON.

The Maximum distance between the Z30 and the LEDs unit in the line should not exceed 100 meters



DIVE 6 FULL COLOUR and DIVE 18 RGB unit are provided with 2 separeted LED's input lines. DIVE 6 FULL COLOUR and DIVE 18 RGB unit need 2 x Z30 LED's output each.

NOTE

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The Lighting Company

ISO 9001:2000

D.T.S quality system
Is certified to the
ISO 9001:2000 standard



D.T.S. Products are designed And manufactured at the D.T.S Plants in Italy



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